

G. Leffers

1636

CH Errors Corrected by the STIC Systems Branch

Serial Number: 09/430,590 E

CRF Processing Date: _____

Edited by: _____

Verified by: _____ (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line. #20

Edited a format error in the Current Application Data section, specifically: **ENTERED**

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: _____

Deleted extra, invalid, headings used by an applicant, specifically: _____

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically: _____

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically: _____

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other: *Authorized edit. Inserted <220> to <223> information for sequence # 150*

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1636

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/430,590E

DATE: 05/09/2001

TIME: 12:13:03

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\05092001\I430590E.raw

3 <110> APPLICANT: Poulter, et al.
 5 <120> TITLE OF INVENTION: UNUSUAL RETROTRANSPOSON FROM THE YEAST CANDIDA ALBICANS
 7 <130> FILE REFERENCE: 674521-2001.1
 9 <140> CURRENT APPLICATION NUMBER: 09/430,590E
 10 <141> CURRENT FILING DATE: 1999-10-29
 12 <150> PRIOR APPLICATION NUMBER: 60/106,342
 13 <151> PRIOR FILING DATE: 1998-10-30
 15 <160> NUMBER OF SEQ ID NOS: 156
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 388
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Candida albicans
 24 <300> PUBLICATION INFORMATION:
 25 <308> DATABASE ACCESSION NO: AF043301
 26 <309> DATABASE ENTRY DATE: 1998-07-21
 27 <313> RELEVANT RESIDUES: (1)..(388)
 29 <400> SEQUENCE: 1
 30 tggcgctat agagagatt cctagccgga atgcacgaca atcctgagac ggaagtcgat 60
 32 cggtcgatgcc catgggtcggt ggtaaaaat tttcttagaa aatttggttt ttccttcaac 120
 34 tgcttttaag aaagagaggt tcaagtgggt taagtacgac ggtcacaaag attgcggctt 180
 36 atgaggccccg aactgagttt aaatacaaaa tcaagatata attatataacc ttacttgtcc 240
 38 atattgtttt ataatacatt cttagatata ttaaaatttct gtgttatcaac ctataaaaca 300
 40 gagatacatt cagtgcattt agtatactga gtgaactgggt acctgtgaca ttcaagataa 360
 42 ctgttcgctcgac cacgctggca gacgaaca 388
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 400
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Candida albicans
 50 <300> PUBLICATION INFORMATION:
 51 <308> DATABASE ACCESSION NO: Y08494
 52 <309> DATABASE ENTRY DATE: 1997-08-27
 53 <313> RELEVANT RESIDUES: (1)..(400)
 55 <400> SEQUENCE: 2
 56 cgggttaatg tatatttcga cttagaaca gctgttagatg taaacactaa 60
 58 tatgaagaac tggaaaaaca ataacttcta ttctgactct gattctgtat gaaaactaac 120
 60 tgaagaaaaag aatataaaaaataaaaaatataaataaagac aaaggagaat ctctgaccct 180
 62 tatatacgtt gaaaactaga gtgcgtatgtt accatcagac cagtcataaa ccaactaatt 240
 64 taataatatac aataactcgt ctaacgaggt gtaaaacaaaa taccgaaaat agaaatataa 300
 66 ataactcaat gccaagatgg tgcgcaacca ccaaggtaat aaacaaccaa tagaaccaag 360
 68 aattgtaaat cagacaacga gcaaggctga ttataacaaca 400
 71 <210> SEQ ID NO: 3
 72 <211> LENGTH: 6426
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Candida albicans
 76 <220> FEATURE:
 77 <221> NAME/KEY: CDS

See P. 5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/430,590E

DATE: 05/09/2001
TIME: 12:13:03

Input Set : A:\Cpg.pto
Output Set: N:\CRF3\05092001\I430590E.raw

78 <222> LOCATION: (398)..(1372)
 79 <223> OTHER INFORMATION: ORF1 coding sequence for gag
 82 <220> FEATURE:
 83 <221> NAME/KEY: CDS
 84 <222> LOCATION: (1373)..(6103)
 85 <223> OTHER INFORMATION: ORF2 - coding sequence for pol
 88 <400> SEQUENCE: 3

89 tttgggttg tgcactattt	tgttcagaa	actgatcaat	aaaaatgtat	gttattatga	60	
91 gaatggaaaa	ttttccatc	acacatcagg	tgtgacaga	actaaactat	atttgttagt	120
93 ataaataagg	gtatgaaata	ccaacatccc	agaatatcaa	cgagatagaa	gggaggagtt	180
95 tcaatata	tcttgtaat	aataacttcg	ttctaattca	ctatacacaa	ctagacgtgt	240
97 acacgctcaa	tctcaggtaa	agaaaagttt	tattccatca	gattagaagt	cgatagtgtat	300
99 aatcatttcg	tcccaaatta	gcgttgtata	aattcagtcc	ttagatgtt	attattgatt	360
101 gatagttcg	aagtttgaag	gtacagaatt	tcacaag	atg agt tcc	gca aag aat	415
102			Met	Ser Ser Ala	Lys Asn	
103			1		5	
105 gat gat aac gaa	ggg aag gtc	atg gaa	agt gtt	gat caa	gct aat gct	463
106 Asp Asp Asn Glu	Gly Lys Val	Met Glu	Ser Val	Asp Gln	Ala Asn Ala	
107	10	15		20		
109 att agt aag gtg	gat gaa cat	atc aag	gct aga	ttc aat	atg ctt ttc	511
110 Ile Ser Lys Val	Asp Glu His	Ile Lys Ala	Arg Phe	Asn Met	Leu Phe	
111	25	30		35		
113 ata aaa ttt aat	gac tta cct	aag ttg	gcc gtc	ggt aat	cag aaa agc	559
114 Ile Lys Phe Asn Asp	Leu Pro Lys	Leu Ala Val	Gly Asn Gln	Lys Ser		
115	40	45		50		
117 gtg gat aaa tgg	aat gaa gaa	ttt aaa	tat ttc	cac gtt	gct tac ccc	607
118 Val Asp Lys Trp	Asn Glu Glu	Phe Lys Tyr	Phe His	Val Ala Tyr	Pro	
119	55	60		65		70
121 gat gtt ttg gaa	ttt ttg ctt	gac tat	aat cct	aaa gat	aaa ttc aag	655
122 Asp Val Leu Glu	Phe Leu Asp Tyr	Asn Pro Lys	Asp Lys	Phe Lys		
123	75	80		85		
125 gtt aaa aag gta	gaa ggt att	tat ttt	act ggt	ttg tgt	tta caa atg	703
126 Val Lys Lys Val	Glu Gly Ile	Tyr Phe Thr	Gly Trp Cys	Leu Gln	Met	
127	90	95		100		
129 tgt tta cag tcc	att ttt gat	agg ttc	aga ttg	atc atg	att tct aag	751
130 Cys Leu Gln Ser	Ile Phe Asp Arg	Phe Arg	Leu Ile	Met Ile	Ser Lys	
131	105	110		115		
133 cta cca aag cac	ttg caa aag	gaa gca	aac tta	atc aaa	gct gct tat	799
134 Leu Pro Lys His	Leu Gln Lys	Glu Ala	Asn Leu	Ile Lys	Ala Ala Tyr	
135	120	125		130		
137 gat gct gtt act	aaa tct	aaa gat	tat acc	att act	agt aag atc ttg	847
138 Asp Ala Val Thr	Lys Ser Lys	Asp Tyr Thr	Ile Thr Ser	Lys Ile	Leu	
139	135	140		145		150
141 ctg aag ttt gta	aac gtt gaa	cat gag	tta gtg	gtt tgc	tat aac ctt	895
142 Ser Lys Phe Val	Asn Val Glu	His Glu	Leu Val	Val Cys	Tyr Asn Leu	
143	155	160		165		
145 cca tat ttg ctg	cag gtg gaa	gag aaa	ctt gag	gaa ata	ctc tac aac	943
146 Pro Tyr Leu Ser	Gln Val Glu	Glu Lys	Leu Glu	Gl	Ile Leu Tyr Asn	
147	170	175		180		

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149	act tca aac gtt gtc gat gag tat gtc cgt agt ctt cca aat ctc ata	991
150	Thr Ser Asn Val Val Asp Glu Tyr Val Arg Ser Leu Pro Asn Leu Ile	
151	185 190 195	
153	ggt caa gtc ttg tac ttc aat cat gtg aag aaa tca gag gct tta agt	1039
154	Gly Gln Val Leu Tyr Phe Asn His Val Lys Lys Ser Glu Ala Leu Ser	
155	200 205 210	
157	ttg ttt ttg aat att cat gcc tca tac tac tca aag tgg att caa gct	1087
158	Leu Phe Leu Asn Ile His Ala Ser Tyr Tyr Ser Lys Trp Ile Gln Ala	
159	215 220 225 230	
161	gac aat gat aca tca gta ctc cca agt tgc tct acc ata gct gaa gaa	1135
162	Asp Asn Asp Thr Ser Val Leu Pro Ser Cys Ser Thr Ile Ala Glu Glu	
163	235 240 245	
165	atg tgt gat cat cct gat tat gct aga ttg gtt gac att cca agc aac	1183
166	Met Cys Asp His Pro Asp Tyr Ala Arg Leu Val Asp Ile Pro Ser Asn	
167	250 255 260	
169	aaa tat gaa ctt aat ctt att gtt agt tta cca gca cca gag aaa cca	1231
170	Lys Tyr Glu Leu Asn Leu Ile Val Ser Leu Pro Ala Pro Glu Lys Pro	
171	265 270 275	
173	aaa gga aaa cca gag gag aac tca ctg gaa caa tct caa aag aag aac	1279
174	Lys Gly Lys Pro Glu Glu Asn Ser Ser Glu Gln Ser Gln Lys Lys Asn	
175	280 285 290	
177	ctg aaa tca aga aag aga aat aag aaa cat cca aaa tca gat aac gat	1327
178	Ser Lys Ser Arg Lys Arg Asn Lys Lys His Pro Lys Ser Asp Asn Asp	
179	295 300 305 310	
181	aaa ggt gaa aaa gaa aaa gaa aaa act tca ctg gaa tga aaa	1375
182	Lys Gly Glu Lys Glu Lys Glu Lys Lys Thr Ser Ser Glu Lys	
183	315 320 325	
185	aca ggt gct gct tct att aat tgt gta atg aat ata cat aat tgc agc	1423
186	Thr Gly Ala Ala Ser Ile Asn Cys Val Met Asn Ile His Asn Cys Ser	
187	330 335 340	
189	aaa acc acg ttt cca gta gaa aat tct cat tct ctt aat gct tct ttg	1471
190	Lys Thr Thr Phe Pro Val Glu Asn Ser His Ser Leu Asn Ala Ser Leu	
191	345 350 355	
193	aac gta atg aat ttt aaa ggt tta agg ttt aac aag tat cta gtg tat	1519
194	Asn Val Met Asn Phe Lys Gly Leu Arg Phe Asn Lys Tyr Leu Val Tyr	
195	360 365 370	
197	gat act ggt gcc aca ata tct gtt gtg aac aat aaa gat ata ttg ctg	1567
198	Asp Thr Gly Ala Thr Ile Ser Val Val Asn Asn Lys Asp Ile Leu Ser	
199	375 380 385	
201	aat gtt aag gac gca aca att gaa gtt tct gtt gct gat ggt gct aca	1615
202	Asn Val Lys Asp Ala Thr Ile Glu Val Ser Val Ala Asp Gly Ala Thr	
203	390 395 400 405	
205	tta gaa gca gat tgt att ggt gat cta att atc aga gtc ggt att gtc	1663
206	Leu Glu Ala Asp Cys Ile Gly Asp Leu Ile Ile Arg Val Gly Ile Val	
207	410 415 420	
209	tcg att acg tta gag aat aca ttg tat tta cca gaa agt tcc ttt aat	1711
210	Ser Ile Thr Leu Glu Asn Thr Leu Tyr Leu Pro Glu Ser Ser Phe Asn	
211	425 430 435	
213	ctt gtg agt ttg aaa caa att gaa gaa cga gga ttt aat gtt ctt att	1759

RAW SEQUENCE LISTING
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214	Leu	Val	Ser	Leu	Lys	Gln	Ile	Glu	Glu	Arg	Gly	Phe	Asn	Val	Leu	Ile
215	440				445					450						
217	act	aaa	gaa	tca	gtg	att	gtt	aac	caa	aat	gtg	gct	cct	act	att	1807
218	Thr	Lys	Glu	Ser	Val	Ile	Val	Phe	Asn	Gln	Asn	Val	Ala	Pro	Thr	Ile
219	455				460					465						
221	att	gct	tca	agg	aag	aat	gct	gct	gat	ctt	tat	atg	ggt	cct	caa	ttc
222	Ile	Ala	Ser	Arg	Lys	Asn	Ala	Ala	Asp	Leu	Tyr	Met	Gly	Pro	Gln	Phe
223	470				475					480				485		
225	agt	gaa	gaa	tct	tta	gaa	tgt	gat	ttt	gat	tat	gat	ggt	ttg	gca	gat
226	Ser	Glu	Glu	Ser	Leu	Glu	Cys	Asp	Phe	Asp	Tyr	Asp	Gly	Leu	Ala	Asp
227	490				495					500						
229	atg	ttg	tcc	aat	gct	aac	caa	gat	gac	aaa	gat	aaa	tca	agt	atg	aat
230	Met	Leu	Ser	Asn	Ala	Asn	Gln	Asp	Asp	Lys	Asp	Lys	Ser	Ser	Met	Asn
231	505				510					515						
233	gaa	atg	tca	gaa	tat	caa	gaa	cat	gat	tat	agt	tct	cga	gca	tta	ata
234	Glu	Met	Ser	Glu	Tyr	Gln	Glu	His	Asp	Tyr	Ser	Ser	Arg	Ala	Leu	Ile
235	520				525					530						
237	aat	tct	ttg	acg	gag	gtt	gat	gtt	tta	gat	gtt	gaa	att	tcc	cca	tat
238	Asn	Ser	Leu	Thr	Glu	Val	Asp	Val	Leu	Asp	Val	Glu	Ile	Ser	Pro	Tyr
239	535				540					545						
241	gga	gtt	gaa	caa	ttg	cta	cca	act	gga	gat	aag	aac	gat	att	tat	aat
242	Gly	Val	Glu	Gln	Leu	Leu	Pro	Thr	Gly	Asp	Lys	Asn	Asp	Ile	Tyr	Asn
243	550				555					560				565		
245	ttc	cat	ttg	atg	tca	aat	cat	atg	tcc	att	gag	aaa	atc	ttg	ttg	tta
246	Phe	His	Leu	Met	Ser	Asn	His	Met	Ser	Ile	Glu	Lys	Ile	Leu	Leu	
247	570				575					580						
249	caa	aaa	tac	cag	ggt	ctc	gta	ctt	cac	act	tca	aaa	gag	agt	ctt	caa
250	Gln	Lys	Tyr	Gln	Gly	Leu	Val	Leu	His	Thr	Ser	Lys	Glu	Ser	Leu	Gln
251	585				590					595						
253	aag	att	gct	gat	tgt	aag	gta	tgt	cta	tta	tcg	aat	gcc	aaa	cag	aga
254	Lys	Ile	Ala	Asp	Cys	Lys	Val	Cys	Leu	Leu	Ser	Asn	Ala	Lys	Gln	Arg
255	600				605					610						
257	agt	cac	aat	cat	cat	tca	gaa	aga	aaa	gcc	tcg	aga	aga	cat	gag	aga
258	Ser	His	Asn	His	His	Ser	Glu	Arg	Lys	Ala	Ser	Arg	Arg	His	Glu	Arg
259	615				620					625						
261	ctt	cat	tgt	gat	act	ctc	ggt	cca	ttt	agg	tcc	gaa	aat	aac	aag	tgg
262	Leu	His	Cys	Asp	Thr	Leu	Gly	Pro	Phe	Arg	Ser	Glu	Asn	Asn	Lys	Trp
263	630				635					640				645		
265	tat	tta	acg	tct	gtt	ata	gat	gaa	cat	acg	ggt	tac	att	gaa	gga	att
266	Tyr	Leu	Thr	Ser	Val	Ile	Asp	Glu	His	Thr	Gly	Tyr	Ile	Glu	Gly	Ile
267	650				655					660						
269	att	act	aaa	gac	aga	aag	gta	aag	gat	ctc	tta	att	caa	cga	tta	aag
270	Ile	Thr	Lys	Asp	Arg	Lys	Val	Lys	Asp	Leu	Leu	Ile	Gln	Arg	Leu	Lys
271	665				670					675						
273	atc	tgg	aat	aat	cgg	ttt	aac	gat	aag	gtg	gca	tac	tcc	aga	agt	gat
274	Ile	Trp	Asn	Asn	Arg	Phe	Asn	Asp	Lys	Val	Ala	Tyr	Phe	Arg	Ser	Asp
275	680				685					690						
277	aat	gct	cct	gag	ttc	cca	caa	cct	tct	gat	tta	gct	gag	ttc	ggt	att
278	Asn	Ala	Pro	Glu	Phe	Pro	Gln	Pro	Ser	Asp	Leu	Ala	Glu	Phe	Gly	Ile

RAW SEQUENCE LISTING
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DATE: 05/09/2001
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Input Set : A:\Cpg.pto
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279	695	700	705		
281	tgg	agg	gag	act ata gcg gca tat ctg cct gag ctt aat ggt ctc gcc	2575
282	Trp	Arg	Glu	Thr Ile Ala Ala Tyr Ser Pro Glu Leu Asn Gly Leu Ala	
283	710		715	720	725
285	gag	gtt	aat	aaa ttg att tta caa cag att tac agg atc gtt gtg	2623
286	Glu	Val	Val	Asn Lys Leu Ile Leu Gln Gln Ile Tyr Arg Ile Val Val	
287			730	735	740
289	aca	ctt	ggt	cca caa ata ctc aag ttg att tat tat gtg att caa tat	2671
290	Thr	Leu	Gly	Pro Gln Ile Leu Lys Leu Ile Tyr Tyr Val Ile Gln Tyr	
291			745	750	755
293	tct	att	aca	atg atc aac cac act cca cgt cgt tca ctc aag gga caa	2719
294	Ser	Ile	Thr	Met Ile Asn His Thr Pro Arg Arg Ser Leu Lys Gly Gln	
295			760	765	770
297	acc	cct	tat	ggt tgc tat tat caa tta agt gag gga aat ttc tac cgg	2767
298	Thr	Pro	Tyr	Gly Cys Tyr Tyr Gln Leu Ser Glu Gly Asn Phe Tyr Arg	
299			775	780	785
301	ttt	cct	ttt	gcc atc gat tgt gtc gtt aca ttt agt aat gcc atc gaa	2815
302	Phe	Pro	Phe	Ala Ile Asp Cys Val Val Thr Phe Ser Asn Ala Ile Glu	
303	790		795	800	805
305	aag	aac	cgt	tac gga gtt aca tca act aaa gga gct cct tca tcg atc	2863
306	Lys	Asn	Arg	Tyr Gly Val Thr Ser Thr Lys Gly Ala Pro Ser Ser Ile	
307			810	815	820
309	atg	ggt	gct	gtg att ggc tac gct agc gat tgt ttt agt tat tac gtg	2911
310	Met	Gly	Ala	Val Ile Gly Tyr Ala Ser Asp Cys Phe Ser Tyr Tyr Val	
311			825	830	835
313	ttg	cta	aaa	aat atg cgg tgt gat att atc ctt agc cct aat gtc cgt	2959
314	Leu	Leu	Lys	Asn Met Arg Cys Asp Ile Ile Leu Ser Pro Asn Val Arg	
315			840	845	850
317	ata	ttg	cga	agc tat gag gtt att aac tcc tat ctc aaa aac tta tcc	3007
318	Ile	Leu	Arg	Ser Tyr Glu Val Ile Asn Ser Tyr Leu Lys Asn Leu Ser	
319			855	860	865
321	act	aca	cct	atg tca cac att gtt cct atg gct gaa ggt atc cag gga	3055
322	Thr	Thr	Pro	Met Ser His Ile Val Pro Met Ala Glu Gly Ile Gln Gly	
323	870		875	880	885
325	agg	caa	ctg	ggc gct cag tac gag gta cgc gga aca tat gtg gaa agt	3103
326	Arg	Gln	Ser	Gly Ala Gln Tyr Glu Val Arg Gly Thr Tyr Val Glu Ser	
327			890	895	900
329	gaa	tat	gac	aat aca aat gac gtg atg cac atg ccc aaa gag tca tat	3151
330	Glu	Tyr	Asp	Asn Thr Asn Asp Val Met His Met Pro Lys Glu Ser Tyr	
331			905	910	915
333	tca	gtt	cag	cca gca tcg ttt act tta act acg ggt aac agt tct aac	3199
334	Ser	Val	Gln	Pro Ala Ser Phe Thr Leu Thr Thr Gly Asn Ser Ser Asn	
335			920	925	930
337	gaa	tat	gtt	ata aat gat gat cca gta cag att acc att gag aat ccc	3247
338	Glu	Tyr	Val	Ile Asn Asp Asp Pro Val Gln Ile Thr Ile Glu Asn Pro	
339			935	940	945
341	gat	gat	ttt	tct aac cct ctt caa cta act gaa gaa tca cac gat atg	3295
342	Asp	Asp	Phe	Ser Asn Pro Leu Gln Leu Thr Glu Glu Ser His Asp Met	
343	950		955	960	965

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

F.Y.I.
→

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/430,590E

DATE: 05/09/2001
TIME: 12:13:04

Input Set : A:\Cpg.pto
Output Set: N:\CRF3\05092001\I430590E.raw

L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:2131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:2255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:2275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:3156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:3184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:3190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:3192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:3278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:3280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:3438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:3502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:3552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:3634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:3654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:3656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:3768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:3830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:3886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:4002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:4004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:5088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/430,590E

DATE: 05/09/2001

TIME: 12:13:04

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\05092001\I430590E.raw

L:6060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111

L:8916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139

9/430,590E

6

<210> 150
<211> 32
<212> DNA
<213> Artificial Sequence

<400> 150
cgacggctgc agccttcaca tttataattt gc

32

FST

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.